SEQUENCE LISTING

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Met Ly															40
ctg tt Leu Le															96
gca gc Ala Al						_	-								144
gcg ga Ala Gl 50	u Arg	_			_	_	_		-		_	_	_		192
gcc ta Ala Ty 65							-					_		_	240
cac ca	t cag	cgg	cgg	aga	aga	gca	gtg	gcc	gtg	tcc	gag	gtt	gag	tct	288

His	His	Gln	Arg	Arg 85	Arg	Arg	Ala	Val	Ala 90	Val	Ser	Glu	Val	Glu 95	Ser	
				_	aaa Lys											336
					cta Leu											384
	-				aag Lys											432
					tct Ser 150											480
			_		ggc Gly											528
					cca Pro											576
					agc Ser											624
					cct Pro											672
					cat His 230											720
	_			_	cag Gln											768
	_			_	gaa Glu	_				_		_			-	816
	_				aag Lys	_			_				_		_	864
					acc Thr											912
aac	cat	ggc	cat	gaa	aat	atc	acc	acc	tac 2/		ctc	acg	ata	ctc	aac	960

Asn His Gly 305	His Glu As		Thr Tyr	Val Leu 315	Thr Ile	Leu As:	_
atg gta tct Met Val Ser	-	_					
att gca att Ile Ala Ile							
gtg ata agt Val Ile Ser 355	_	-			-		-
cag tct gga Gln Ser Gly 370					_		
tta ctg act Leu Leu Thr 385		o Ile Cys					р
act ttg gga Thr Leu Gly	-	_					
tgc acg att Cys Thr Ile							
cat gag tct His Glu Ser 435			-	_			
atg tgt aaa Met Cys Lys 450	•		_		_		
cgc aat gga Arg Asn Gly 465		r Trp Ser					s
aaa ttt cta Lys Phe Leu							
cct gtg aag Pro Val Lys	-	•					
gat gca aac Asp Ala Asn 515							
tgc atg ctg	gac ttt aa	a aag gac	atc tgt	_	ctg tgg	tgc ca	t 1632

Суѕ	Met 530	Leu	Asp	Phe	Lys	Lys 535	Asp	Ile	Cys	Lys	Ala 540	Leu	Trp	Cys	His	
_					tgt Cys 550					_		-	-	-		1680
		_			gac Asp	_		_				_	_			1728
		_	_		ccc Pro	_							_	_		1776
					tgc Cys				_				-			1824
	_	_		-	acc Thr			_		_				_		1872
_	-				cgc Arg 630		_	_		_		_	_		_	1920
		_	_	-	gac Asp		_	_	_	_	_	_				1968
_	_	_		_	ggg Gly				-		-					2016
_	_	_	_	-	tta Leu	_				_		_	_			2064
-					ttg Leu										-	2112
_		_	_	-	aat Asn 710	-	_		_			_		_	-	2160
					ctt Leu											2208
					aac Asn											2256
acc	aag	cac	cac	cac	acc	aac	cag	tat	tat		atg	gtc	acc	att	cct	2304

Thr	Lys	His 755	His	His	Thr	Asn	Gln 760	Tyr	Tyr	His	Met	Val 765	Thr	Ile	Pro		
		_		_	atc Ile	_			_	_		_				2	2352
				-	aat Asn 790	-		-				-				2	2400
		-	-		ccc Pro						_					2	2448
•		-			tat Tyr								-			2	2496
					ctg Leu				-	_		-				2	2544
_		_	•		gaa Glu			_		_	_				_	2	2592
_			_	_	ccc Pro 870	_				_		-	_			2	2640
					gga Gly											2	2688
		_	_	_	ttt Phe		_		_			_			_	2	2736
					ggg ggg											2	2784
					ggg ggg											2	2832
					cgc Arg 950											2	2880
					ccg Pro											2	2928
agc	agg	cag	gcc	tgc ·	aac	tct	cag	agc	tgc 5/2		cct	gca	tgg	agc	gcc	2	2976

Ser Arg Gln Ala Cys Asn Ser Gln Ser Cys Pro Pro Ala Trp Ser Ala 980 985 990

	Pro '					Ser H					Lys G			agg aag Arg Lys	3024
						agc Ser 1015									3069
						tgc Cys 1030									3114
	gaa Glu 1040	_	-	_		cag Gln 1045	_	-		-				-	3159
_	tgg Trp 1055					tgg Trp 1060									3204
_	gga Gly 1070					ttc Phe 1075									3249
	gga Gly 1085	_		_	-	ctg Leu 1090								ttg Leu	3294
	aag Lys 1100					ctg Leu 1105									3339
_	ccc Pro 1115					ttt Phe 1120									3384
Ser		Phe	Ala	Ser	Pro	tgg Trp 1135	Ser	Gln	Cys	Thr	Ala	Ser			3429
						tcc Ser 1150						Gly			3474
						ctg Leu 1165									3519
						tgc Cys 1180								gcc Ala	3564
ttc	tgc	aaa	gac	tac	ttc	cac	tgg		tac 6/21	ctg	gta	ccc	cag	cac	3609

Phe Cys Lys Asp Tyr Phe His Trp Cys Tyr Leu Val Pro Gln His 1190 1195 1200 ggg atg tgc agc cac aag ttc tac ggc aag cag tgc tgc aag act 3654 Gly Met Cys Ser His Lys Phe Tyr Gly Lys Gln Cys Cys Lys Thr 1205 tgc tct aag tcc aac ttg tga Cys Ser Lys Ser Asn Leu 3675 1220 <210> 2 <211> 1224 <212> PRT <213> Homo sapiens <400> 2 Met Lys Pro Arg Ala Arg Gly Trp Arg Gly Leu Ala Ala Leu Trp Met 10 Leu Leu Ala Gln Val Ala Glu Gln Ala Pro Ala Cys Ala Met Gly Pro 25 Ala Ala Ala Pro Gly Ser Pro Ser Val Pro Arg Pro Pro Pro Pro 40 45 Ala Glu Arg Pro Gly Trp Met Glu Lys Gly Glu Tyr Asp Leu Val Ser 55 Ala Tyr Glu Val Asp His Arg Gly Asp Tyr Val Ser His Glu Ile Met 70 65 His His Gln Arg Arg Arg Ala Val Ala Val Ser Glu Val Glu Ser 85 90 95 Leu His Leu Arg Leu Lys Gly Ser Arg His Asp Phe His Val Asp Leu 100 105 Arg Thr Ser Ser Ser Leu Val Ala Pro Gly Phe Ile Val Gln Thr Leu 115 120 Gly Lys Thr Gly Thr Lys Ser Val Gln Thr Leu Pro Pro Glu Asp Phe 130 140 135 Cys Phe Tyr Gln Gly Ser Leu Arg Ser His Arg Asn Ser Ser Val Ala

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145	150		155	160
Leu Ser Thr Cys	Gln Gly Leu 165	Ser Gly Met 170	Ile Arg Thr Glu	Glu Ala 175
Asp Tyr Phe Leu 180	Arg Pro Leu	Pro Ser His 185	Leu Ser Trp Lys 190	Leu Gly
Arg Ala Ala Gln 195	Gly Ser Ser	Pro Ser His 200	Val Leu Tyr Lys 205	Arg Ser
Thr Glu Pro His	Ala Pro Gly 215	Ala Ser Glu	Val Leu Val Thr 220	Ser Arg
Thr Trp Glu Leu 225	Ala His Gln 230		Ser Ser Asp Leu 235	Arg Leu 240
Gly Leu Pro Gln	Lys Gln His 245	Phe Cys Gly 250	Arg Arg Lys Lys	Tyr Met 255
Pro Gln Pro Pro 260	Lys Glu Asp	Leu Phe Ile 265	Leu Pro Asp Glu 270	Tyr Lys
Ser Cys Leu Arg 275	His Lys Arg	Ser Leu Leu 280	Arg Ser His Arg 285	Asn Glu
Glu Leu Asn Val	Glu Thr Leu 295	Val Val Val	Asp Lys Lys Met 300	Met Gln
Asn His Gly His	Glu Asn Ile 310	Thr Thr Tyr	Val Leu Thr Ile 315	Leu Asn 320
Met Val Ser Ala	Leu Phe Lys 325	Asp Gly Thr 330	Ile Gly Gly Asn	Ile Asn 335
Ile Ala Ile Val	Gly Leu Ile	Leu Leu Glu 345	Asp Glu Gln Pro 350	Gly Leu
Val Ile Ser His	His Ala Asp	His Thr Leu 360	Ser Ser Phe Cys 365	Gln Trp
Gln Ser Gly Leu	Met Gly Lys	Asp Gly Thr 8/2		Ala Ile

Leu 385	Leu	Thr	Gly	Leu	Asp 390	Ile	Cys	Ser	Trp	Lys 395	Asn	Glu	Pro	Cys	Asp 400
Thr	Leu	Gly	Phe	Ala 405	Pro	Ile	Ser	Gly	Met 410	Cys	Ser	Lys	Tyr	Arg 415	Ser
Cys	Thr	Ile	Asn 420	Glu	Asp	Thr	Gly	Leu 425	Gly	Leu	Ala	Phe	Thr 430	Ile	Ala
His	Glu	Ser 435	Gly	His	Asn	Phe	Gly 440	Met	Ile	His	Asp	Gly 445	Glu	Gly	Asn
Met	Cys 450	Lys	Lys	Ser	Glu	Gly 455	Asn	Ile	Met	Ser	Pro 460	Thr	Leu	Ala	Gly
Arg 465	Asn	Gly	Val	Phe	Ser 470	Trp	Ser	Pro	Cys	Ser 475	Arg	Gln	Tyr	Leu	His 480
Lys	Phe	Leu	Ser	Thr 485	Ala	Gln	Ala	Ile	Cys 490	Leu	Ala	Asp	Gln	Pro 495	Lys
Pro	Val	Lys	Glu 500	Tyr	Lys	Tyr	Pro	Glu 505	Lys	Leu	Pro	Gly	Glu 510	Leu	Tyr
Asp	Ala	Asn 515	Thr	Gln	Cys	Lys	Trp 520	Gln	Phe	Gly	Glu	Lys 525	Ala	Lys	Leu
Cys	Met 530	Leu	Asp	Phe	Lys	Lys 535	Asp	Ile	Cys	Lys	Ala 540	Leu	Trp	Cys	His
Arg 545	Ile	Gly	Arg	Lys	Cys 550	Glu	Thr	Lys	Phe	Met 555	Pro	Ala	Ala	Glu	Gly 560

Tyr Gly Asp Glu Gly Pro Lys Pro Thr His Gly His Trp Ser Asp Trp 580 585 590

Thr Ile Cys Gly His Asp Met Trp Cys Arg Gly Gly Gln Cys Val Lys

Ser Ser Trp Ser Pro Cys Ser Arg Thr Cys Gly Gly Val Ser His 9/21

505	500	C05
595	600	605

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Arg	Ser 610	Arg	Leu	Cys	Thr	Asn 615	Pro	Lys	Pro	Ser	His 620	Gly	Gly	Lys	Phe	
Cys 625	Glu	Gly	Ser	Thr	Arg 630	Thr	Leu	Lys	Leu	Суs 635	Asn	Ser	Gln	Lys	Cys 640	
Pro	Arg	Asp	Ser	Val 645	Asp	Phe	Arg	Ala	Ala 650	Gln	Cys	Ala	Glu	His 655	Asn	
Ser	Arg	Arg	Phe 660	Arg	Gly	Arg	His	Tyr 665	Lys	Trp	Lys	Pro	Tyr 670	Thr	Gln	
Val	Glu	Asp 675	Gln	Asp	Leu	Суѕ	Lys 680	Leu	Tyr	Cys	Ile	Ala 685	Glu	Gly	Phe	
Asp	Phe 690	Phe	Phe	Ser	Leu	Ser 695	Asn	Lys	Val	Lys	Asp 700	Gly	Thr	Pro	Cys	
Ser 705	Glu	Asp	Ser	Arg	Asn 710	Val	Cys	Ile	Asp	Gly 715	Ile	Cys	Glu	Arg	Val 720	
Gly	Cys	Asp	Asn	Val 725	Leu	Gly	Ser	Asp	Ala 730	Val	Glu	Asp	Val	Cys 735	Gly	
Val	Cys	Asn	Gly 740	Asn	Asn	Ser	Ala	Cys 745	Thr	Ile	His	Arg	Gly 750	Leu	Tyr	
Thr	Lys	His 755	His	His	Thr	Asn	Gln 760	Tyr	Tyr	His	Met	Val 765	Thr	Ile	Pro	
Ser	Gly 770	Ala	Arg	Ser	Ile	Arg 775	Ile	Tyr	Glu	Met	Asn 780	Val	Ser	Thr	Ser	
Tyr 785	Ile	Ser	Val	Arg	Asn 790	Ala	Leu	Arg	Arg	Tyr 795	Tyr	Leu	Asn	Gly	His 800	
Trp	Thr	Val	Asp	Trp 805	Pro	Gly	Arg	Tyr	Lys 810	Phe	Ser	Gly	Thr	Thr 815	Phe	
Asp	Tyr	Arg	Arg	Ser	Tyr	Asn	Glu	Pro	Glu 10/		Leu	Ile	Ala	Thr	Gly	

Pro	Thr	Asn 835	Glu	Thr	Leu	Ile	Val 840	Glu	Leu	Leu	Phe	Gln 845	Gly	Arg	Asn
Pro	Gly 850	Val	Ala	Trp	Glu	Tyr 855	Ser	Met	Pro	Arg	Leu 860	Gly	Thr	Glu	Lys
Gln 865	Pro	Pro	Ala	Gln	Pro 870	Ser	Tyr	Thr	Trp	Ala 875	Ile	Val	Arg	Ser	Glu 880
Cys	Ser	Val	Ser	Cys 885	Gly	Gly	Gly	Gln	Met 890	Thr	Val	Arg	Glu	Gly 895	Cys
Tyr	Arg	Asp	Leu 900	Lys	Phe	Gln	Val	Asn 905	Met	Ser	Phe	Cys	Asn 910	Pro	Lys
Thr	Arg	Pro 915	Val	Thr	Gly	Leu	Val 920	Pro	Cys	Lys	Val	Ser 925	Ala	Cys	Pro
Pro	Ser 930	Trp	Ser	Val	Gly	Asn 935	Trp	Ser	Ala	Cys	Ser 940	Arg	Thr	Cys	Gly
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Asp	Ser	Glu	Pro	Val 965	Pro	Ala	Ser	Leu	Cys 970	Pro	Gln	Pro	Ala	Pro 975	Ser
Ser	Arg	Gln	Ala 980	Cys	Asn	Ser	Gln	Ser 985	Cys	Pro	Pro	Ala	Trp 990	Ser	Ala
Gly	Pro	Trp 995	Ala	Glu	Cys	Ser	His 1000		c Cys	s Gly	/ Ly:	s Gly 100		rp Ai	rg Lys
Arg	Ala 1010		l Ala	a Cys	s Lys	Sei 101		nr As	sn Pi	ro Se		la <i>1</i> 020	Arg A	Ala (Gln
Leu	Leu 1025		o Asp	Ala	a Val	Cys 103		ır Se	er Gl	lu Pi	_	ys 1 035	Pro A	Arg N	1et
His	Glu	Ala	a Cys	s Lev	ı Leı	ı Glr	n Ai	rg Cy	/s Hi	is Ly 21	/S Pi	ro I	Lys I	Lys I	Leu

	1040					1045					1050			
	Trp 1055	Leu	Val	Ser	Ala	Trp 1060	Ser	Gln	Cys	Ser	Val 1065	Thr	Cys	Glu
_	Gly 1070	Thr	Gln	Lys	Arg	Phe 1075	Leu	Lys	Cys	Ala	Glu 1080	Lys	Туr	Val
	Gly 1085		Tyr	Arg	Glu	Leu 1090	Ala	Ser	Lys	Lys	Cys 1095	Ser	His	Leu
	Lys 1100	Pro	Ser	Leu	Glu	Leu 1105	Glu	Arg	Ala	Cys	Ala 1110	Pro	Leu	Pro
	Pro 1115	Arg	His	Pro	Pro	Phe 1120	Ala	Ala	Ala	Gly	Pro 1125	Ser	Arg	Gly
	Trp 1130	Phe	Ala	Ser	Pro	Trp 1135	Ser	Gln	Cys	Thr	Ala 1140	Ser	Cys	Gly
	Gly 1145	Val	Gln	Thr	Arg	Ser 1150	Val	Gln	Cys	Leu	Ala 1155	Gly	Gly	Arg
	Ala 1160		Gly	Cys	Leu	Leu 1165	His	Gln	Lys	Pro	Ser 1170	Ala	Ser	Leu
	Cys 1175	Asn	Thr	His	Phe	Cys 1180	Pro	Ile	Ala	Glu	Lys 1185	Lys	Asp	Ala
	Cys 1190	_	Asp	Tyr	Phe	His 1195	Trp	Cys	Tyr	Leu	Val 1200	Pro	Gln	His
	Met 1205	Cys	Ser	His	Lys	Phe 1210	Tyr	Gly	Lys	Gln	Cys 1215	Суз	Lys	Thr
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tgatgca	acaa tacaatgcta ccttctttga aacctgacta gtttcagctg tgtgtgagat	120
5 5		
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